

**Abstract**

A manufacturing method for manufacturing a multilayer film optical member, includes an injection step in which an UV-curable liquid crystal is injected into a space between  
5 a pair of transparent substrates, with a transparent conductive film disposed on each of the transparent substrates; a first radiation step in which parallel coherent ultraviolet light beams are radiated onto the UV-curable liquid crystal through the pair of transparent substrates from two sides of the  
10 UV-curable liquid crystal; and a second radiation step in which ultraviolet light achieving uniform intensity on a surface of the transparent substrate is radiated onto the UV-curable liquid crystal through the transparent substrate while applying an electrical field between the pair of transparent  
15 conductive films.